Applicant: McCormick Serial No.: 10/713,334 Group Art No: 3752

PATENT Atty Docket: 1506-310

AMENDMENTS TO THE CLAIMS

Please amend claims 1, 8, 13, 16 and 20 as set forth below.

Listing of Claims

1. (Currently Amended) An irrigation sprinkler for uniformly watering a target area comprising:

a sprinkler body;

a nozzle disposed on said sprinkler body:

said nozzle comprising a substantially hollow, cylindrically shaped body having a first end, a second end and a flow passageway extending therebetween surrounded by an internal wall; and

a plurality of stepped, radial offsets formed along said internal wall such that an internal diameter of said nozzle <u>progressively</u> decreases from said first end to said second end of said nozzle.

- 2. (Original) The irrigation sprinkler of claim 1 wherein said nozzle is removable from said sprinkler body.
- 3. (Original) The irrigation sprinkler of claim 1 further including at least one fin formed along said internal wall to reduce fluid turbulence.
- 4. (Original) The irrigation sprinkler of claim 3 wherein said fin is aligned parallel to fluid flow.
- 5. (Original) The irrigation sprinkler of claim 1 wherein said first end is attached to a fluid source.
- 6. (Withdrawn) The irrigation sprinkler of claim 1 wherein said second end is attached to a fluid source.

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(Withdrawn) The irrigation sprinkler of claim 1 wherein said stepped radial offsets are arranged at various angles to decrease a boundary layer of fluid within said nozzle.

8. (Currently Amended) An irrigation sprinkler for uniformly watering a target area comprising:

a sprinkler body;

a nozzle disposed on said sprinkler body;

said nozzle comprising a substantially hollow, cylindrically shaped body having a first end, a second end and a flow passageway extending therebetween surrounded by an internal wall;

a plurality of stepped, radial offsets formed along said internal wall such that an internal diameter of said nozzle <u>incrementally</u> decreases from said first end to said second end of said nozzle; and

at least one fin formed along said internal wall to reduce fluid turbulence.

- 9. (Original) The irrigation sprinkler of claim 8 wherein said nozzle is removable from said sprinkler body.
- 10. (Original) The irrigation sprinkler of claim 8 wherein said fin is aligned parallel to fluid flow.
- 11. (Original) The irrigation sprinkler of claim 8 wherein said first end is attached to a fluid source.
- 12. (Withdrawn) The irrigation sprinkler of claim 8 wherein said second end is attached to a fluid source.

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- 13. (Currently Amended) The irrigation sprinkler of claim 8 wherein said stepped radial offsets are arranged at <u>various angles an angle relative to the nozzle</u> to increase a boundary layer of fluid within said nozzle.
- 14. (Withdrawn) The irrigation sprinkler of claim 8 wherein said stepped radial offsets are arranged at various angles to decrease a boundary layer of fluid within said nozzle.
- 15. (Withdrawn) The irrigation sprinkler of claim 14 wherein said boundary layer flows at a rate less than a centerline fluid velocity.
- 16. (Currently Amended) A method of uniformly watering a target area comprising:

 providing a sprinkler attached to a fluid source;

 introducing fluid from said fluid source to said sprinkler;

 urging said fluid to an exit of said sprinkler; and

increasing a boundary layer thickness of said fluid as it exits said sprinkler by urging said fluid through a <u>plurality of stepped offsets</u> along an internal surface <u>forming</u> a <u>decreasing diameter</u> along said exit.

- 17. (Original) The method of claim 16 further comprising maximizing a throw radius of said sprinkler by maintaining boundary layer fluid flow at a rate less than centerline velocity.
- 18. (Original) The method of claim 17 further comprising producing even water distribution over said throw radius.
- 19. (Original) The method of claim 16 further comprising providing at least one fin formed along said stepped internal surface to reduce fluid turbulence.

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(Currently Amended) The method of claim 19 further comprising providing a 20. nozzle within said exit of said sprinkler to form a water stream projecting from one side said of said sprinkler.